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APPLICATION NO.	FILING DATE	FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO	
09/936,295	02/12/2002	Carl Robert Towns	08513.0001	2451	
109	7590 06/24/2004		EXAMINER		
	CHEMICAL COMPA	HAMPTON HIGHTOWER, PATRICIA			
P. O. BOX 1		ART UNIT	PAPER NUMBER		
MIDLAND,	MI 48641-1967	1711			
		DATE MAILED: 06/24/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

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-		Application	on No.	Applicant(s)				
Office Action Summary		09/936,29	95	TOWNS ET AL.				
		Examine		Art Unit				
•		Patricia H		1711				
	NG DATE of this communication	appears on the	cover sheet with the	correspondence ad	dress			
Period for Reply			o evoloe « MONTÚ	(O) 5DOM				
THE MAILING DA  - Extensions of time marging SIX (6) MONTHS  - If the period for reply  - If NO period for reply  - Failure to reply within Any reply received by	STATUTORY PERIOD FOR RE ATE OF THIS COMMUNICATIO by be available under the provisions of 37 CFF from the mailing date of this communication. specified above is less than thirty (30) days, a is specified above, the maximum statutory per the set or extended period for reply will, by statch the Office later than three months after the m djustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no every reply within the state riod will apply and we return the course the appropriate representation.	ent, however, may a reply be til utory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	mely filed  ys will be considered timely the mailing date of this co	r. Immunication.			
Status	•							
1) Responsive	e to communication(s) filed on 20	0 January 200	4.					
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,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Clain								
•		are pending in	the application.					
	Claim(s) <u>1-20,22,23,25-65 and 117-130</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.							
•	is/are allowed.			•				
•	Claim(s) <u>1-20,22,23,25-65 and 117-130</u> is/are rejected.							
•								
•	Claim(s) are subject to restriction and/or election requirement.							
Application Papers					·			
	cation is objected to by the Exam	niner.						
	9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 21 September 2001 is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
• •	nt drawing sheet(s) including the cor				FR 1.121(d).			
•	declaration is objected to by the							
Priority under 35 U.	S.C. § 119			•				
•	gment is made of a claim for fore	eign priority un	der 35 U.S.C. § 119(a	a)-(d) or (f).				
· —	] Some * c) ☐ None of:		•	, ( ) ( )	·			
, ,	ified copies of the priority docum	ents have bee	en received.					
	ified copies of the priority docum			tion No				
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	ication from the International Bu							
* See the atta	ched detailed Office action for a	list of the cert	ified copies not receiv	ed.				
Attachment(s)								
1) Notice of Reference			4) Interview Summar					
	son's Patent Drawing Review (PTO-948) ure Statement(s) (PTO-1449 or PTO/SE ate <u>1/20/2004</u> .		Paper No(s)/Mail II 5) Notice of Informal 6) Other:		D-152)			
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## Response to Amendment

In view of the applicant's amendment filed January 20, 2004 the rejection of the claims under 35 USC 102(e) as anticipated by Inbasekaran has been withdrawn because the claimed invention requires the polymer to be a block copolymer where each block in the copolymer comprises the components that provide one of the emissive, the positive charge transport or the negative charge transport functionalities. Also, the cancellation of claims 21, 24 and 66-116 is acknowledged; claims 1-20,22-23,25-65 and 117-130 are presently pending. However, claims 1-20,22-23,25-65 and 117-130 are subject to a new ground of rejection under 35 USC 102(e) as anticipated by Wu et al (US 2003/0045642A1) newly cited.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-20,22-23,25-65 and 117-130 are newly rejected under 35 U.S.C. 102(e) as being anticipated by Wu et al (US 2003/0045642A1) newly cited.

Wu et al (US 2003/0045642A1) newly cited discloses an organic block polymer useful in an electroluminescent polymer device (or in a polymer field effect transistor) that includes an emissive polymer block that is consistently conjugated along the

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ch.

polymer backbone of the emissive polymer block (e.g., a copolymer of 2,7-linked 9,9 dioctyl fluorine and 4,7-linked 2,1,3 benxo thiadiazole) and a positive charge carrier polymer block that is consistently conjugated along the backbone of the positive charge carrier polymer block (e.g., a copolymer of 2,7-linked 9,9-dioctylfluorene and 4N, 4N'-linked N,N'-di(3-carboxomethoxyphenyl)benzidine) for transporting positive charge carriers to the emissive polymer block so that the positive charge carriers to the emissive polymer block so that the positive charge carriers can combine with negative charge carriers to generate light; which anticipates the claimed invention. See abstract; the claims; pages 1-7.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

## **Prior Art**

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. These references are cited to show the state of the art of electroluminescent polymers/devices; Towns and Pichler.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia Hightower whose telephone number is (571) 272-1073. The examiner can normally be reached on M-F from 9:30 A.M. - 6:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patricia H. Hightower Primary Examiner

Patricia V. Diglitonies

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P. Hightower:af April 23, 2004